	Application No.	Applicant(s)	
Notice of Allowability	10/708,986	CHEN ET AL.	
	Examiner	Art Unit	
	Rita Leykin	2837	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ) or other appropriate commation is	n this application. If not included unication will be mailed in due cour	se. <b>THIS</b>
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-20</u> .			
3. The drawings filed on 06 April 2004 are accepted by the E	Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority u <ul> <li>a) All</li> <li>b) Some*</li> <li>c) None</li> <li>of the:</li> </ul> </li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul> <li>* Certified copies not received:</li>	e been received. e been received in Applicati	on No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
5. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give			CE OF
<ul> <li>6. CORRECTED DRAWINGS (as "replacement sheets") mu</li> <li>(a) including changes required by the Notice of Draftsper</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in</li> </ul>	son's Patent Drawing Revie  's Amendment / Comment of  1.84(c)) should be written on	r in the Office action of the drawings in the front (not the back	k) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	nformal Patent Application (PTO-152 Summary (PTO-413), /Mail Date	2)
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>4/6/04</u></li> <li>Examiner's Comment Regarding Requirement for Deposit</li> </ol>	08), 7. ☐ Examiner's	Amendment/Comment  Statement of Reasons for Allowance	co
of Biological Material	9. Other		
		RITA LEYKIN RIMARY EXAMINER	

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance. The prior art made of record in the attached form PTO-892 considered to be pertinent to the submitted application.

Korte, Jr. US# 4,066,945 discloses a linear driving circuit for a dc motor with current feedback. Wherein the linear current circuit includes a full bridge drive with across connected motor 30. Wherein the upper switching elements 36 and 78 connected to the first power supply terminal and lower pare of switching elements is connected to ground terminal +V. The motor driving current is being applied between first and second parts 32a and 32b of the bridge that connected to motor terminals 30a and 30b. Korte Jr. discloses current sensing circuit for detection of driving current supplied to the motor that is presented in form of sensing resistances 83, 84. The output of operational amplifier 94 is the actual current of motor 30. Current 11 obtained from the logic circuit and intended to drive motor 30, in other words a command current, (see column 1, lines 58-68 and column 2, lines 1-68, and column 3, lines 1-50).

Landseadel US # 5,153,492 teaches a servoamplifier that is used for driving power transistors supplying current to a dc servo motor. Wherein the servo amplifier includes a control signal input, (command signal), tach signal input representing actual speed signal, circuitry coupled to the inputs for creating an error signal between the control signal and the tach signal. The power transistor drive circuitry adapted to be coupled to the power transistors, (see abstract).

However, none of the prior art teaches or suggests a combination of:

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 The at least one error signal being electrically separated from the first and second switching units;

- A feedback circuit coupled to the error amplifier so as to apply at least one error signal selectively to the first or the second linear units;
- A state control circuit for synchronously controlling the first and second switching units and the feedback circuit such that during a first operational period the first switching unit is operated in a nonconductive mode, the second switching unit is operative in conductive mode, the feedback circuit allows at least one of the error signal to be applied to the first linear unit for operating in a linear mode, and the feedback circuit prevents the at least one error signal from being applied to the second linear unit, thereby controlling the driving current to become substantially proportional to the command current signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571)272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita Leykin
Primary Examiner
Art Unit 2837

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R.L.